ABSTRACT

0052 A method and computer graphics program executed by a processor for interactively subdividing a region in a computer controlled graphics display system is described. The user directly manipulates a control object (or "handle") using a pointing device such as a computer mouse with the result that the region exposing the control object is evenly divided into an array or volume of smaller regions. The distance from the position of the start of interaction with the control object (the "click") is continuously monitored to interactively update the number of divisions in the horizontal and vertical directions. Example displays during this interaction phase include overlaid grids representing the actual position of pending subdivisions, or a matrix of abstract subregions representing the count of subregions that will be created when the user indicates that the interaction is complete by releasing the control object. Upon release of the control object, the previewed splits to the region are converted to real splits in the region.